

CAMBRIDGE, MASS., FRIDAY, NOVEMBER 19, 1948

PRICE FIVE CENTS

20 MILLION DOLLARS SOUGHT FOR ENDOWMENT PURPOSES

Local Chemical Society Disbands In Protest Over Discrimination

In a meeting held Wednesday evening the Alpha Zeta Chapter of Alpha Chi Sigma, chemical society, voted to send their charter back to the national organization thus disbanding the M.I.T. chapter. This action was taken as the only possible means left to protest against the discriminatory by-laws in the constitution.

For many years the local unit has been leading the fight to repeal these by-laws with no avail. In the national conclave held during the summer the motions were presented with the backing of over 75% of the collegiate chapters but were defeated by a close margin. In view of the facts that the next conclave is two years away and the chances of repeal at that time seem even more remote the M.I.T. chapter took this drastic action in hopes that it will force legislation.

The offending rules forbade membership to Jewish, Chinese, Indian, Negro, and many other students under the broad wording of the by-laws. It was felt that in these times and especially in an outstanding engineering school of international scope the amendments were degrading and against good policy.

Alpha Chi Sigma has been under fire on several other campuses lately. Expelled by the student governing body of the U. of S. Cal. for anti-semitism, it is being considered for denial at the U. of Colorado. Harvard Univ. has denied the chapter there the privilege of reorganizing after the war for similar reasons.

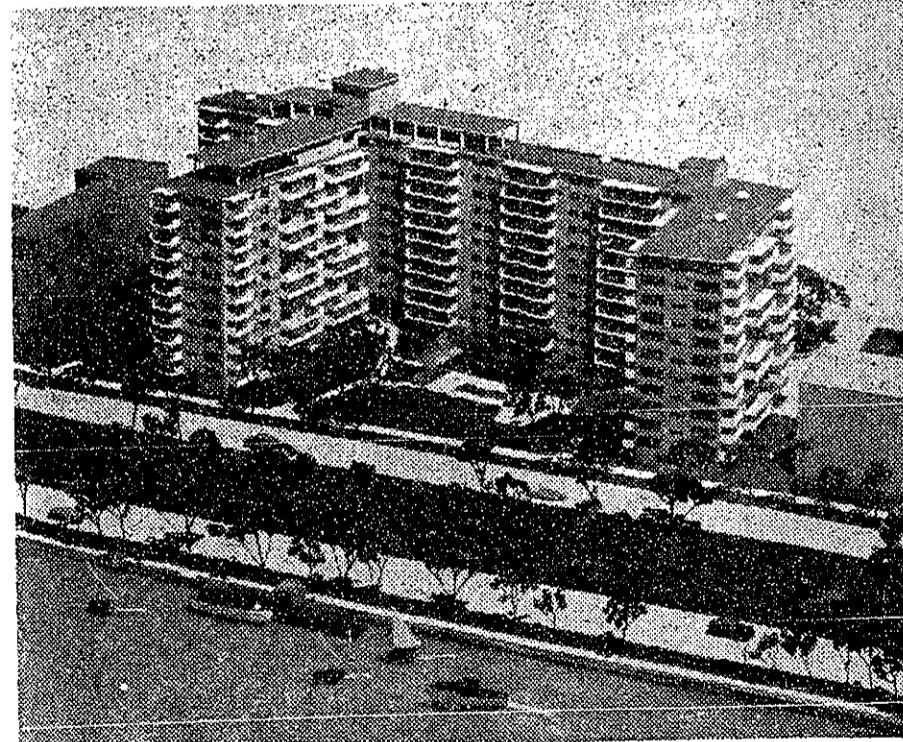
College Handbook Attacks Compton

The 31st edition of "Handbook of Private Schools," by Porter Sargent, a well-known authority on colleges, contains a foreword which severely condemns the Ivy League colleges, including Harvard, for not providing the intellectual leadership that they once did.

According to Mr. Sargent, the Ivy League and other leading colleges, while they grew wealthy, have come to depend on rich donors for financial aid and have accordingly adopted their attitudes. Their presidents have been forced to agree with the "militarists."

Mr. Sargent adds: "And of course Compton of M.I.T., who is so dependent for appropriations of millions from the Army and Navy, and industrialists who supply them, is eloquent in endeavoring to place himself at the head of the procession."

NEW EASTGATE APARTMENTS



Technology Families Will Occupy New 12-Story Apartment House

A new, modern, twelve-story apartment house will soon be built on the site formerly occupied by the dilapidated shoe exhibition building along Memorial Drive. The old factory, now being torn down, will make way for this \$3,000,000 project, which is backed jointly by the Institute and the Mutual Life Insurance Company.

First choice of the rentals on the new building will go to veterans, faculty, married students, and close associates. President George Willard Smith of Mutual stated, however, that no applications could be accepted at the present time. Construction is scheduled for completion in the early summer of 1950.

Sixty Year Lease
The two and one-third acre tract adjoining the Institute is being leased to M.L.T. for 60 years, at every

Privacy Accentuated

Roominess and privacy are increased by the fact that each new principle floor contains only four apartments, in which

Shmoos To Follow Penguin Formal At Junior Prom

Techman disguised as penguins will gather in the Hotel Statler this evening to dance in tune with Johnnie Long and his orchestra. At 9 p.m. Johnnie will play Sweetheart of Sigma Chi to open the Junior Prom festivities. 480 Shmoos and their gal Shmoos are expected to dance until the Blue Laws set in. The Beachcombers, with Natalie and June Mayes, will assist Johnnie Long in providing entertainment.

Saturday the creatures shed their formal attire and will appear at the Massachusetts Avenue Armory to meet Al Capp, the creator of the Shmoo.

To insure a Dogpatch atmosphere a special formula for Kickapoo Joy Juice was prepared. The JP committee will make no statements about the drink, except that it is a good solvent.

Students who wish to be shmoos but have not yet bought a ticket need not lose hope. Tickets will be sold at the door.

The Beaver Key Society has taken full responsibility for the Water Aquacade prior to the Shmoo party. At 2:30 p.m. two water polo games, Wheelock vs. Radcliffe, and competing Technology teams, will be held in the Alumni Pool. Sorry, no playoff between the winners. Races and a diving exhibition by Lou Lehman, '50, will fill out the two-hour program.

American Edition of 'Cybernetics' Published By Technology Press

By SANDER RUBIN

If you're one of the few people around here who doesn't know that Professor Norbert Wiener of the Mathematics Department has written a book called *Cybernetics*, he has. *Cybernetics*, a term that has its beginning with Wiener, is the study of controlling systems.

As a science, cybernetics is not so much a revolutionary theory as a codification and rigorization of existing knowledge. It is not unlikely that the cybernetic principles would have been developed gradually during the next ten or fifteen years, even if there were no Professor Wiener, but because of his broad background, was able to present them at this time.

Senior Ring Chairman, Junior Prom Committee To Be Chosen At Polls

Scheduled to be elected next Tuesday are a Senior Ring Chairman from the class of '50, and a Junior Prom Committee, consisting of five members of the class of '51; the Student Referendum is to be voted on by all classes. These elections are to be held in the lobby of Building 10 from 8:30 a.m. until 5:20 p.m., as well as in Walker at the old lounge bar from 11 to 2:00.

Ballots for voting are obtained by presentation of registration cards. There will be no voting by proxy.

Paul D. McNaughton '49, chairman of the election committee, has emphasized that all election rules will be strictly adhered to.

The Senior Ring chairman is to be elected by the preferential system, while elections to the Junior Prom Committee will be made on points. In this system each candidate is credited with as many votes as he has first places, half as many as he has second places, and one third as many as he has third places up to the fifth places.

Broader Education, Leadership Stressed

A \$20,000,000 program for "new facilities and increased resources to realize our full potential for widened service to the nation and its youth" will be announced today by Dr. James R. Killian, Jr., President designate of the Institute.

Of the \$20,000,000 needed, half is to be reserved for endowment and unrestricted funds; the other half is required for new buildings and equipment. The Institute's needs are based on five "imperatives," which are:

CHAIRMAN



Marshall B. Dalton, President of the Boston Manufacturers Mutual Fire Insurance Company and of the Mutual Boiler Insurance Company, who has been appointed General Chairman of the Committee on Financing Development at the Institute.

1. An adequate salary scale for the faculty of the Institute must be stabilized and insured.

2. The Institute's educational program must be broadened to provide a well-rounded and complete college community.

3. The Institute must accept its proper share of the responsibility for making America preeminent in science.

4. The educational leadership of the Institute must be maintained.

5. The Institute's independence as a private institution must be continued.

Must Preserve Independence

Placing his emphasis on M.I.T.'s position as an independent, privately-endowed institution, Dr. Killian will tell the Committee this noon, "I submit that it is of vital importance that M.I.T. preserve its freedom and its strength. The Institute should exercise leadership in demonstrating that resources can and must be obtained under our free-enterprise system for the support of privately-endowed institutions. We believe that if M.I.T. is successful in showing that it can command the support of individuals, of corporations, and of foundations, it will have provided a demonstration heartening to private education throughout the country."

Dr. Killian will speak this noon before nearly 250 members of the Committee on Financing Development, established by the M.I.T.

PROGRAM

FRIDAY, NOVEMBER 19, 1948
10:00 a.m.—Registration.....Lobby
12:30 p.m.—Luncheon.....Campus Room Graduate House
Address: President James R. Killian, Jr., '28
"FUNDING M.I.T.'S INDEPENDENCE"
2:30 p.m.—Afternoon Session Campus Room Graduate House
Presiding: Mr. Marshall B. Dalton, '15, General Chairman

Theme: "PRIORITY NEEDS AS SET FORTH BY SURVEY COMMITTEE"
7:00 p.m.—Evening Session, Salle Moderne, Hotel Statler
Toastmaster: Mr. Marshall B. Dalton, '15, General Chairman
Address: Mr. Alfred P. Sloan, Jr., '95, Honorary Chairman
Address: Dr. Karl T. Compton, "M.I.T.'S DUTY IN THE YEARS AHEAD"

SATURDAY, NOVEMBER 20, 1948
10:00 a.m.—Morning Session, Room 10-250
Presiding: Mr. Marshall B. Dalton, '15, General Chairman
Remarks: Mr. Arnaud C. Marts, President Marts & Lundy, Inc.
"THE OVERALL PLANS FOR RAISING \$20,000,000"
Remarks: Mr. Joseph J. Sayder, '44, Assistant Treasurer
"CORPORATION SUPPORT"

10:45 a.m.—General Discussion, Questions & Answers, Responses from Visiting Members of C.F.D.
11:45 a.m.—Unveiling of plaque for the 12,000,000 volt electrostatic generator
12:30 p.m.—LuncheonCampus Room Graduate House
Presiding: Mr. Marshall B. Dalton, '15, General Chairman
Address: Dr. George R. Harrison, Dean of Science
"HOW M.I.T. LOOKS TO AN OUTSIDER ON THE INSIDE"

Corporation to study the needs of the Institute for its post-war development. Mr. Marshall B. Dalton, President of the Boston Manufacturers Mutual Fire Insurance Company, will preside at the luncheon
(Continued on Page 3)

Published in France
The book was published first in France in a cheap paper-bound edition. According to Professor de Santillana, who assisted in pre-

(Continued on Page 3)

The Tech

VOL. LXVIII

FRIDAY, NOVEMBER 19, 1948

NO. 44

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Night Editor: David A. Grossman, '50

Assistant Night Editor: Marvin C. Grossman, '51

THE ALMIGHTY QUIZ

Certainly the educational system at the Institute is not perfect. The emphasis upon quizzes and grades is detrimental to obtaining a thorough knowledge of the subject matter. At the present time this accent develops a group of mechanics, men who are aware of the formulas and tools of the trade but who lack the essential ideas that go into the making of their science of engineering. The exalted Doctor's degree has also fallen to the state where it is merely an addition to the regular four years resulting in more formulas and books but little further understanding of the subject. Perhaps the degree of Master of Scientific Mechanics should be established.

As noted in the editorial on the new Princeton System there are schools that are experimenting with new approaches to the problem of education. If they have gone too far it is only in the attempt to correct a situation that is becoming increasingly troublesome.

One method of weeding out often employed in European Institutions is the holding of comprehensive examinations. The system has rarely been tried in the states but has certain advantages. To begin with it is possible to concentrate on the essential points in a course by learning to discern the structure upon which the study stands.

The emphasis is put upon individual initiative with the examinations falling at widely separated periods. It offers greater opportunities for self-expression to the student while still guiding him in his studies. On the other hand it is often possible to cram for these examinations as for others with the sole purpose of retaining the knowledge until the examination is over. The system might be tried in the future, if only to attempt something already proved worthy in Europe.

EDUCATION IN REVIEW: PRINCETON

Noted last week was the article proclaiming Princeton's new system of awarding degrees and promotions. The new character of the plan is one not so much of marking as of interpreting the grades. Under the new system a student who fails a subject will not be compelled to make it up or be held back from graduation. Admittedly this program makes it easier to get by in college. The idea is to prevent a student from falling farther behind in his studies by taking overloads of subjects failed the previous term. There are also many students who fail to get a degree in their chosen field because of failures in other required courses. Presumably the plan will not make the degree a cheaper item but involve closer scrutiny of the graduating class and more attention to the individual rather than his absolute grades as a criterion of graduation.

On paper this idea looks fine. Perhaps it would even be possible in a liberal arts college to carry out the plan. The authors of the plan claim that under the new system the same men would flunk out as before but this is as yet unproven. The idea that a man may be overloaded with courses he failed is sound. There are only so many hours in the week. The idea that the courses should not be made up is a different question. If the courses were important enough in the first place to be made compulsory, then they are important enough to maintain. The emphasis at the current time is upon broadening the scope of college in order to develop better all-round citizens. The new system as we see it would go contrary to this sound strategy by allowing a student to concentrate on a single topic without learning anything else.

DISCRIMINATION

In line with current opinion throughout the country an M.I.T. society has seen fit to disband rather than to continue under present discriminatory rules in the constitution. This same week has seen such dramatic steps in the same direction as the action taken by an Amherst fraternity in initiating a negro. This action is well taken in these days in which the world is, in that ever-recurring phrase, growing smaller. We salute the men of Alpha Zeta of Alpha Chi Sigma for their strong stand.

Fraternity Findings

Joe Fleming and Ed Stringham

Last Saturday night Theta Delta Chi gave a formal dance at their house in honor of their pledges. Friday night the Phi Gam's held a splash party at the Tech pool followed by refreshments at Pritchett Lounge.

Sigma Nu-Apache Party

Walking into the Sigma Nu house last Saturday was like turning into the dark corners of Paris' Pigalle. The entrance-way was cluttered with ash cans and empty bottles and the guests were attired with typical French dive dress. Champion of the costumes were those of Paul Grady and his scantily clad date. Center of attraction was the eight-foot nude painted by Jack Hetherington and Bill Benfer.

The Klondike Saloon Party

The annual opening of the Klondike Saloon by Phi Beta Epsilon will add to the festivity of J.P. Weekend. The doors will swing in Saturday night at 8:30 P.M. at the Cambridge Boat Club. Guests will have access to a well-stocked supply of refreshments and to music for dancing.

Social Chairman Committee Formed

To avoid alternately crowded and bare social weekends and to exchange ideas, the social chairmen of the various fraternities have formed the I.F.C. Social Chairman Committee, under the direction of Ed Walz, Phi Delta Theta. Meetings are held the second Wednesday of each month at various houses.

Behind the scenes there are two sub-committees. The Master Schedule Committee, chairmanned by Bill Meckert, keeps up-to-date a sched-

(Continued on Page 6)

Letters to the Editor

PRO VITKA . . .

Editor, The Tech
Walker Memorial
Dear Sir:

As members of the Walker Memorial Student Staff, we feel very strongly that an injustice has been done to Joseph A. Vitka, Head Captain of the Student Staff. Neither "The Lounger" (The Tech, November 9) in presenting the case nor the Institute Committee in disqualifying Joe for Student Member of the Coop Board has been very judicious in accepting as evidence the impression of a freshman who has been a member of the Student Staff for six weeks at most.

Having worked with Joe more than six weeks, we can say that he has real executive ability. He has certainly never treated anyone unkindly. We can say, too, that Joe has always insisted upon hard work from all of his associates, even as he put in a great deal of effort in his rank and file days. In most organizations there are those who have a slight aversion to work. Therefore, in a not too serious way they express an aversion to Joe.

We personally feel that whether or not Joe would have been nominated, he should certainly not have been disqualified on the basis indicated.

Yours truly,
Peter P. Klemchuk '50
Tom Wilson '50

We are extremely sorry that the above-signed members of the Walker staff have construed The Lounger's article to mean that we approved of the action of the Institute Committee.

We wrote what we did in order to get the story before the student body, where it belongs.

We, too, feel that Joe was done an injustice and that the Institute Committee should have investigated the story.

The Lounger

In The Spotlight

By Marvin C. Grossman

"More Bone in the Back, and less in the Head," is the phrasing of the motto which is framed on the wall of Professor Irving H. Cowdrey's cluttered office. Perhaps some of you recall Professor Cowdrey as the distinguished person who won the Voo Doo "Messiest Office Contest," last year. Others may know him from personal contact through the many classes he has taught. Those who have Professor Cowdrey this year are probably familiar with the phrase . . . "Well, this is the last time I'll have to say that." After forty-five years of teaching at the Institute, he will finally "graduate" with the class of '49!

M.I.T. Class of '05

Born in Fitchburg, Mass., in 1884, he completed his public school education at the age of 16, and one year later, began his freshman year at the "Tech on Boylston Street." "In the Old Days" Professor Cowdrey recalls, "I had to travel a total of 106 miles a day by foot and rail to and from school. He graduated with the class of '05, which incidentally, was the first class to win a field day competition, and returned to the Institute as an assistant in the Machine Drawing department.

\$400 Was First Year's Salary

Those who complain of the wages paid to instructors these days, should note that the Good Professor received the generous sum of \$400 for his first year's work. Things picked up, however, and the following year his salary was raised to \$500.

One of his earlier technical papers was entitled, "Relative Cost Research on Horse Drawn and Motor Driven Trucks." In addition to this, he has written several other papers on subjects pertaining to mechanical engineering, and two textbooks.

This notable gentleman has developed teaching into a fine art. He believes that "teaching has the greatest possibilities of any career—it is better than the ministry, because your congregation can't get up and leave." Professor Cowdrey also said, "A man must teach stu-



Photo by Hass

Professor Irving H. Cowdrey
dents, and not subjects."

An Avid Stamp Collector

The first stamp was pasted in his book at "the age of six and a half," and he has been a philatelist ever since. Other hobbies include oil painting, and pastel drawing.

He believes men at Technology today are getting a better balanced education, and obtaining a clearer outlook on life than the students of his day. Although he admits that studying at the Institute is not exactly an easy ordeal, he believes that "more men are killed by playing than by working."

After being at a job for forty-five years, you might want to know what a person does when he suddenly retires. Professor Cowdrey intends to devote more time to his stamps, write "both prose and poetry," and of course, practice on his favorite Cello, "Brunhilde."

LOST—A tall, German beer Stein with lid, disappeared during the Theta Chi Hangover Party last Saturday evening, November 13. Sentimental value. Call CI 7-7790.

GUARANTEED SPECIALS!

'42 Ford Station Wagon	\$1,075
'47 Studebaker Champion	\$1,375
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Fund-Raising

(Continued from Page 1)

as general chairman of the committee.

600 Alumni Members

Mr. Dalton has announced that nearly 600 key alumni and industrial leaders, representing all sections of the United States, have accepted membership on the Committee on Financing Development. Honorary Chairman of the committee is Alfred P. Sloan, Chairman of the Board of General Motors Corporation.

The luncheon meeting today is the first in a series of committee sessions which will extend until tomorrow afternoon. In the course of this two-day meeting the committee members will hear details of M.I.T.'s needs for resources and buildings and will review the overall program for financial development.

Compton to Speak

Dr. Karl T. Compton, Chairman of the M.I.T. Corporation, and Mr. Sloan will speak at a dinner meeting of the committee tonight at Hotel Statler.

"Throughout the Institute," Dr. Killian has stated, "there is agreement that M.I.T.'s objective is to educate top-flight engineers, scientists and architects who are at the same time top-flight citizens. This aim is behind the Institute's emphasis on work in the humanities and the social sciences, including economics, labor relations and international relations. Extension of these activities is one of the goals of the development program, both through increased capital funds and through provision of more adequate living and recreational facilities for students."

New Facilities

Training opportunities in new fields of technology are also cited by Dr. Killian, who refers particularly to programs in nuclear science and engineering, electronics, hydrodynamics, and metals processing under way at the Institute. "The acquisition of new facilities in these areas," according to Dr. Killian, "will enable new concepts to be put into practice."

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NO COVER NO MINIMUM

**Contracts Can't Impede Education
But Institute's Take is \$13 Million**

By JOHN R. SEVIER

A million bucks! Whew, that's a lot of money, isn't it? But contracts worth more than a million dollars pass through the Division of Industrial Cooperation each month. To be a little more exact, about thirteen and a half million dollars worth of government and industrial contracts were handled by the D.I.C. last year.

Now it seems to us that an organization of this size deserves a little more recognition, or, at least, a little more understanding, on the part of our readers. We were just as ignorant of the D.I.C.'s work as most of the other readers until we finished a lengthy interview with Malcolm S. Stevens, Administrative Assistant of the D.I.C.

Extensive Research Program

"At present," says Mr. Stevens, "there are no less than 168 projects, for both government and industry, which the Institute has undertaken." Some of these projects, involving extensive research and study, employ as many as seventy or eighty men. Others, involving such things as testing materials may only occupy one man. The latter example, that of routine testing, is discouraged by the Division, since it is not the object of the program to compete with other laboratories which could perform the same function.

Studying Cosmic Rays

The largest contract which the Division is handling now is the Laboratory for Nuclear Science and Engineering, headed by Professor J. R. Zacharias. The work done by this Laboratory is for the Office of Naval Research and includes such research as cosmic ray study, bombardment of atomic nuclei with the cyclotron and the Van de Graaf generator, and other projects involving very high voltages.

Other large projects include the Laboratory for Insulation Research, the Acoustics Laboratory, the Wind Tunnel Laboratories, and the Research Laboratory for Electronics. The Electronics Lab, headed by Prof. J. A. Stratton, is continuing the work of the Radiation Lab, a very extensive war-time research project here at the Institute.

Contract Procedure Outlined

The procedure which the D.I.C. follows goes something like this: A government representative or a representative of some private industry contacts the Division, explaining the research or development problem which his company would like the Institute to study. If proper facilities are available at Technology, the D.I.C. will ask some senior staff member (in the department which the contract con-

PLACEMENT INFORMATION

If you are interested in writing to any of the following companies, you may get their address in Room 7-101.

Company	Courses
C. F. Braum Co.	X, III, II
Alhambra, Calif.	
Crown Capacitor Corp.	VI
Wrentham, Mass.	
Dept. of Public Schools	Teaching
Providence, R. I.	
N. E. Power Service Company	I, VI
Boston, Mass.	
The Monitor Controller	VI
Company	
Boston, Mass.	
Riley Stoker Corp.	II
Worcester, Mass	
Sandia Lab.	II, VI, VIII, IX
Albuquerque, N. Mexico	
Bomac Labs (Immediate opening—not February)	VIII, V
Beverly, Mass.	
W. W. Crandall Company	II, XV
Warren, N. H.	
Eastman Kodak	
Company	X, VI, XV, X, V, II, I
Rochester, N. Y.	

cerns) to assume responsibility of the project.

If such a senior member can be found to take charge (he is not obligated to do so), the project will be accepted, and the D.I.C. will take care of the necessary reports and contracts.

No Interference With Education

The Institute emphasizes that any contract which the Division accepts must not, in any way, interfere with the educational program. If the project overloads the Institute staff or encroaches on space and facilities required by the educational program, it will be rejected. Availability of space and equipment must be insured in advance by the Registrar and the department head.

Another stipulation is that the project must come within the volume of research (measured in dollars, space, personnel, and required amount of administrative attention) which the Institute can properly undertake.

Competition Not Object

Primarily, the purpose of Technology is education, and not competition with industry or governmental agencies, but due to various reasons, the Institute has undertaken such a program not for profit but for public service. The Division of Industrial Cooperation, which heads this program, is, in short, a bridge between the Institute and outside industries.

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CALENDAR OF EVENTS**FRIDAY, NOVEMBER 19**

Mechanical Engineering Department. Seminar: "The Problem of Measuring Radial Pressure Distribution of Piston Rings." Charles D. Strang, Jr. Room 3-470, 4:00 p.m. Coffee will be served at Headquarters from 3:30 to 4:00 p.m.

School of Architecture and Planning. "Growth of a City—Paris." Dean Joseph Hudnut, Graduate School of Design, Harvard University. Room 7-437, 4:00 p.m.

SATURDAY, NOVEMBER 20

Gas Turbine Laboratory. Seminar: "Three Dimensional Problems in Aerodynamics Now Soluble by Numerical Methods." Dr. R. F. Clippinger, Ballistics Research Laboratory, Aberdeen Proving Grounds. Room 31-261, 10:00 a.m.

Westgate Cooperative Nursery School. Encyclopedia Britannica films of animals for children. Room 6-120, 10:30 a.m. Tickets at thirty-five cents may be purchased at the door. Proceeds to benefit Nursery School.

MONDAY, NOVEMBER 22

Mathematical Society. "What is Topology?" Professor Irvin S. Cohen. Room 4-270, 5:00 p.m.

Technology Matrons. The Book Club. The M.I.T. Staff Players will present a play reading of "Laburnum Grove" by J. E. Priestley. Emma Rogers Room, 2:45 p.m.

Meteorology Department. Seminar: "A Theory of Dynamic Entrainment and Its Application to the Convection Problem in Meteorology." Room 12-132, 4:00 p.m.

Debating Society. Debate with Middlebury College on British Labor Government question. Room 24-205, 5:00 p.m.

Radio Society. Amateur radio code classes. Room 10-267, 5:00 p.m.

Outing Club. Group singing. Faculty Lounge, Walker Memorial, 7:30 p.m.

TUESDAY, NOVEMBER 23

Naval Architecture and Marine Engineering. "The Battle of Midway." Captain Samuel E. Morison, U.S.N.R., Jonathan Trumbull Professor of American History, Harvard University. Room 3-370, 10:00 a.m.

Acoustics Laboratory. Seminar: "Non-Linear Acoustic Resonators." Dr. Richard H. Bolt and Samuel Labate. Room 20E-125, 4:00 p.m.

Geology Department. Harvard-M.I.T. Geological Conference. "Elongation in Deformed Rocks." Dr. Harold W. Fairbairn. Room 24-323, 4:30 p.m.

Lecture Series Committee. "What Do You Dream?" Professor Alex Bavelas. Room 1-190, 5:00 p.m.

Radio Society. Amateur radio theory classes. Room 10-267. 5:00 p.m.

Rocket Research Society. "The Place of Rockets in Guided Missiles." Room 3-270, 5:00 p.m. All students invited.

Eta Kappa Nu. Smoker for candidates. 5:15 Club Room, Walker Memorial, 5:15 p.m.

Model Railroad Club. Business meeting. Room 20E-216, 5:15 p.m.

Economics and Social Science Department. Graduate Economics Seminar: "Management of New Enterprises." Professor Georges Doriot, Harvard Business School. Moore Room, 8:00 p.m.

Arthur D. Little Memorial Lectureship. "Research on a Single Reaction and Its Social Effect." Dr. Robert E. Wilson, Chairman of the Board, Standard Oil Company of Indiana. Morris Hall, Walker Memorial, 8:30 p.m.

WEDNESDAY, NOVEMBER 24

Electrical Engineering Department. Staff Seminar: "Acoustics as a Tool." Professor Richard D. Fay. Room 10-275, 4:00 p.m.

Outing Club. "Skiing Technique." Moving pictures. Room 10-250, 5:00 p.m. Everyone welcome.

American Institute of Electrical Engineers—Institute of Radio Engineers. Student branch. "The History of Power Development at Holyoke, Mass." R. E. Day and R. H. Walker, Holyoke Water Power Company. Room 6-120, 6:45 p.m.

THURSDAY, NOVEMBER 25

Thanksgiving Day. Holiday.

FRIDAY, NOVEMBER 26

Technology Dames. Square Dance. Cambridge Y.W.C.A., 8:00 to 11:45 p.m. Refreshments. Tickets will be sold at the door. All Dames and friends invited.

DIVISION OF HUMANITIES SERIES

A lecture sponsored by the Division of Humanities Series and the Lecture Series Committee will be delivered by Dr. C. Crane Brinton, McLean Professor of Ancient and Modern History, Harvard University, in Huntington Hall on Thursday, December 2, at 5:00 p.m. His subject will be "Prospects for World Government." Free tickets will be available at the Information Office beginning November 22.

MEDICAL DEPARTMENT ANNOUNCEMENT

There are only a few days left to take advantage of the Medical Department offer to give free x-ray chest examinations to all members of the staff, students, and employees who have not yet done so. Examinations may be made without appointment daily between 2:00 and 4:00 p.m. through November 30.

The Calendar of Events is published weekly on Friday and contains announcements for the following week. It is sent without charge to all members of the staff and the heads of various organizations. It will be mailed to others for one dollar a year, payable in advance at the Calendar of Events Office. All announcements, typewritten and signed, must be in the hands of the Editor, Room 7-204, not later than noon on Monday prior to publication date. Material for the Calendar, November 26-December 4, is due November 22.

Cybernetics

(Continued from Page 1)

paring the book for publication, this procedure was followed to make the information available in the "soft-money" countries which would ordinarily be unable to spend dollars.

The Technology Press has published it in this country under a contract with John Wiley and Sons.

Photo-Offset Used

A unique method was employed in bringing out the American edition. The pages of the French edition, which was printed in English, were used as dummies for photo-offset plates thereby making it unnecessary to re-compose the book.

Technology Press pays the French publisher a royalty for each book sold in consideration of its use of the French edition.

For a book on such a highly technical matter, Cybernetics has sold surprisingly well. In the first ten days since publication, nearly half of the first edition has been sold.

Much of this circulation may have been stimulated not only by the newness of the material, but also by the excellent publicity in the non-technical press. An article on Professor Wiener and his new science appeared in a recent issue of Newsweek, and the Professor has written a long article on the subject which is featured in the current Scientific American.

HERE'S WHERE YOUR MONEY GOES—III

SCHEDULE B
INSTITUTE COMMITTEE
Including Sub-Committees

Receipts:	
Income from Corporation	\$3,193.00
Profit from "Tech Night at Pops"	300.00
Profit from sale of freshman ties	272.62
Total Income	\$3,765.62
Total Expenditures:	
	\$3,216.00
Balance	549.62
Expenditures:	
Institute Committee:	
Secretary's Wages	\$ 600.00
Secretarial Expenses	50.00
Stationery and Supplies	50.00
T.C.A. Handbook	100.00
Technique	70.00
	\$ 870.00
Budget Committee:	
Financial Report	\$ 20.00
Treasurer's Bond	25.00
Stationery and Supplies	20.00
Auditing	75.00
Technique	35.00
	\$ 175.00
Elections Committee:	
Ballots	\$ 100.00
Posters	20.00
Nomination Blanks	10.00
Administration	15.00
Technique	35.00
	\$ 180.00
Public Relations Committee:	
Prep. School Relations	\$ 150.00
Hometown Department	60.00
Special Events Department	60.00
Photography Department	65.00
Office Supplies	30.00
Technique	35.00
	\$ 400.00
Student-Faculty Committee:	
Dinner Meetings	\$ 210.00
Technique	35.00
Posters	10.00
Stationery and Supplies	20.00
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Meteorology

Naval Architecture and Marine Engineering

The duration of each of the above undergraduate Courses is four academic years and leads to the Bachelor's degree with the following exceptions: Architecture, Marine Transportation, Food Technology (Five-Year Course), Physical Biology, and the Cooperative Courses in Electrical Engineering and in Mechanical Engineering, which extend over a period of five years. In addition to the Bachelor's degree, with the exception of Architecture, five-year courses lead also to the Master's degree, and in Mechanical Engineering, which leads to the Bachelor's degree only.

Graduate study, leading to the Master's and Doctor's degrees, is offered in Ceramics, in Sanitary Engineering, and in most of the above professional Courses.

For information about admission, communicate with the Director of Admissions.

The Catalogue for the academic year will be sent free on request.

Basketball Squad
Is Cut To 18 MenVeterans To Lead Team
Through Stiff Schedule

The M.I.T. basketball squad with eight veterans returning from last season's eight-won six-lost campaign has been cut to eighteen men following three weeks of drills. Injuries to key men have slowed the team development, but the Techmen hope to be in top shape for their December 1st opener with New Bedford Textile.

Among the veterans is Jim Madden, who was top scorer for the 1947 Beavers with a 12 point per game average and center Lou Morton. Ossie Honkalehto and Ed Corrie will team up in the back-court while Rich Rorschach, Bob Haass, and Johnny MacMillan, all letter-winners, will work up front.

SCHEDULE

Dec. 1, New Bedford Textile; Dec. 3, E.U.; Dec. 8, Trinity away; Dec. 11, Stevens at Hoboken; Dec. 15, Brown, away; Dec. 18, Worcester Poly., away; Jan. 7, Tufts; Jan. 12, Northeastern away; Jan. 14, Coast Guard Academy; Feb. 11, B.U., away; Feb. 14, Devens, away; Feb. 16, Brown; Feb. 18, Bowdoin, away; Feb. 19, Colby, away; Feb. 23, Northeastern; Feb. 28, New Hampshire.

Varsity Swim Squad Prepares
For Opener With Brown Dec. 3

At Brown on December 3, Tech's swimming squad will open a season which should prove to be very successful. Coach Smith has a strong team which has been narrowed down from a group of fifty candidates, and many of the returning lettermen have already shown improvement over their times last year.

Last season the varsity squad broke all but one of the Tech pool records. Although some of the men who broke these records have graduated, many are back to bolster the present squad. Lou Lehmann will head the divers, with Carl Schumaker, a returned veteran, competing with Sullivan and Hart for the other diving spot.

Five men from last year's freshmen squad have been moved up to

varsity spots. Coombs, another Sophomore on the team, did not compete last year. Time trials last Wednesday showed that the team is rapidly getting in shape for the opener.

Men on the varsity squad are: Edgar, Pitler, Hurlbut, Conlin, Kellem, Loomis, Pelletier, Lehmann, Roller, Callahan, Conlin, Dinneen, Jones, Thomas, Van Mook, Schwartzman, Schiesser, Coombs, Sullivan, Hart, and Schumaker. The team will be headed by co-captains Pitler and Edgar.

1948-49 VARSITY SWIM SCHEDULE:

Dec. 3, Brown (Away); Dec. 11, Amherst; Dec. 15, Harvard (Away); Dec. 17, Wesleyan; Jan. 8, Trinity (Away); Jan. 15, Bowdoin (Away); Feb. 12, R.P.I.; Feb. 19, W.P.I. (Away); Dec. 23, Tufts; Dec. 25, Boston U.; March 4, U. of Conn.; March 5, U. of Mass. (Away); March 10 and 11, N.E.I.S.A. at Amherst.

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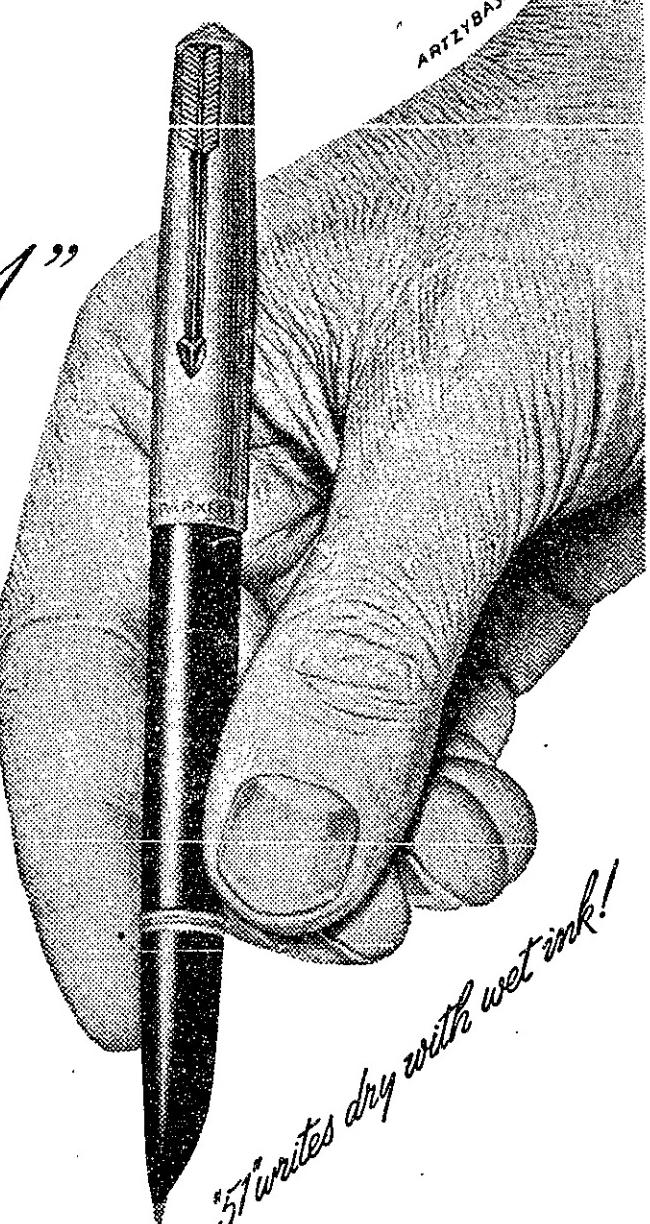
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Harriers Close 1948 Season With IC4A Meet At New York

Tech's harriers brought their season to a close last Wednesday when they competed in the I.C.A. A.A.A. championships at Van Cortlandt Park in New York City. The race was over the five mile course, with 32 teams comprising 239 men competing.

This IC4A meet was a historic occasion, as records were smashed and the spectators were given an exhibition of the best running on

record. Bob Black of Rhode Island State was the winner, breaking the record for the course by better than half a minute.

To get an idea of the scope of competition, Coach Hedlund pointed out that a total of seven men completed the course in less than 28:00 minutes compared with two last year; a total of 24 men completed the course in less than 27 minutes as compared with 10 in 1947.

Hank Henze, who finished 37th, was the first M.I.T. runner to finish, with Sam Holland, Ed Olney, Bud Simpson, and Carol Belton finishing in that order for Tech. Henze, Simpson and Holland all bettered their last year's time considerably

(Continued on Page 6)

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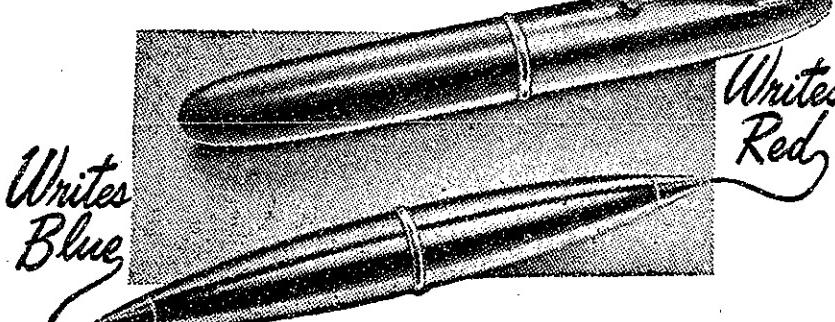
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Booters Lose Finale 4-0; Finish With 4-4-1 Record

Veteran Foilers Strengthen Team

Fencers Ready Foils For Techsapoppin Show

Ever since the beginning of the year, the fencing team has been unobtrusively practicing in its small "salle d'armes" next to the Walker gym. Coach Levis (a Tech graduate and holder of a second place Olympic medal) is working hard to get the men into first class condition.

Abbate Captains Squad

Leading the squad will be Captain Mario Abbate, who fences foils. Behind him in that weapon are Frank Kellogg, who fenced on last year's team, and Tony Mirti, a sophomore with much high school experience. In epee, Tech will probably be represented by Tito Luzuriaga of last year's team, plus sophomores Kurz and Moroney.

The last weapon, sabre, will be well provided for by veteran fencer Chickli, two sophomores with Prep School experience—John Lowry and Peter Ney, and Jim Turner, a Junior.

Display Skills at Techsapoppin

The team will have its first exhibition during Techsapoppin when it will offer a display of the different phases of fencing. The only intercollegiate meet scheduled before Christmas will be against Clark, fenced at home. After vacation the fencers will meet B.U. here, and Bowdoin, Columbia and Princeton away. Cornell then comes here for a meet, and then the team travels to meet McGill in Montreal. The regular season ends with a

(Continued on Page 6)

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Harvard Scores In Second Half

Last Tuesday afternoon, the MIT soccer team closed out its 1948 season when it took on the Harvard booters at Briggs Field.

For the first two periods and part of the third, the Engineers appeared to be on the road to victory, as, although unable to score, they spent most of the time in Harvard territory. However, midway during the third period, the tide changed and Harvard eventually scored four goals before the end of the game to win 4-0.

Attack Peters Out

Thus, after a very promising start, the Beaver booters ended their season with three straight losses to finish with a record of four wins, four losses, and one tie. The team's attack seemed to peter out during the second half of the season, as witnessed by the fact that not even one goal was scored during the last four games.

The scoring in the Harvard game started in the third period when Potter of the Crimson put the ball past Goalie Hendershott. The other three scores came during the final period on goals by Spivak, Weiss and Chan, the last two being made in the last ten minutes of the game.

Falco Injured

In the last minute of the game Harry Falcao, Tech's star forward, was kicked in the side during a scramble for the ball and was forced to retire from the game. At first it was feared that Falcao had suffered several broken ribs and a possible kidney injury. However, X-rays taken afterwards revealed no serious injuries, but only a stretched muscle.

The starting lineups:

MIT	HARVARD
Hendershott	G
Thornton	R.F.
Dimitriou	L.F.
Drucker	R.H.
Verso	C.H.
Baranski	L.H.
Auston	O.R.
Cornish	I.R.
Smith	C.R.
Alcaharman	I.L.
Falcao	O.L.

Icemen Play Brown In 1st Practice Tilt

Brown University turned the first practice game of the MIT hockey team into a rout during the second period last Friday in Providence. Although it was the first time that the Tech pucksters have taken the ice this year, it was the ninth encounter for Brown, and the Bears' eighth win.

The high caliber of play produced by the Brown squad was matched move for move during the first and third periods by the Tech team, but the lid blew off in the second period, when the Beaver defense fell apart, and Brown put four tallies in the net.

The ice squad is still rounding into shape, and it is much too early to say how the individual players will look when the season opens. A game against Fort Devens on November 29 will open the schedule, followed after two days by B.U. in the Arena. Harvard will furnish the opposition on December 4 as part of the Techsapoppin festivities.

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Western Union Is Europe's Hope

Deutsch Tells Hillel
U. S. Experience Vital

American federalism can be an example and inspiration to the formation of a federation of western European states, Professor Karl Deutsch told a meeting of the Hillel Foundation, Wednesday evening in Room 3-290.

Professor Deutsch, a member of the M.I.T. English and History Department, cited the American Revolution, the Northwest Ordinance, and United States administration of Hawaii as examples of the wealth of experience this country can apply to the problem of Western Union. This federation, he emphasized, must be established amid an increasing nationalism of the people of Western Europe.

The lecturer also criticized the present colonial policy of the capitalist countries which must be modified so as to make the colonies economic partners of the mother countries. Substantial aid by the United States to a Western European federation should be made on the basis of this reformed colonial policy, internal social reforms, and the principles of organization mentioned above, Professor Deutsch concluded.

Harriers

(Continued from Page 5)

despite the large field.

In the freshman race, Vickers was the first Tech runner to complete the three-mile course, with Nicholson close behind. This meet also ended the season for the frosh team.

Nicholson, captain of the freshman team, has hung up an excellent record in his first season of cross country. He won in the meets against the Tufts frosh and the Mass. State frosh and placed third against the strong New Hampshire squad.

Coming from Lake Washington High School in Kirkland, Washington, Nicholson ran on the track team there for two years. His specialty was the mile run which he has done in the time of 4:45. Coach Hedlund is pleased with his new prospect—"one of the best in many years."

Activity Briefs

Outing Club Lauletaan

Folk songs, hoe-downs, and girls from nearby colleges will take over Faculty Lounge on Monday, November 22, at 7:30 p.m. The M.I.T. Outing Club is presenting a Lauletaan (let's sing) with local ballad and folk-song specialists featured.

The program will be directed by General Manager Al Smith '40, square-dance and folk song impresario, and Hubert Barnes '50. All Techmen are invited.

Orchestra at Wellesley

The M.I.T. symphony orchestra will play a combined concert with the girls of Wellesley on Sunday, December 5, at 4:30 p.m. This performance, which will take place at Wellesley, will be the first of its kind for the M.I.T. orchestra. Until this year the girls had held their combined concerts with Harvard men.

Admission to the concert is free, and all M.I.T. students and their friends are invited. Following the concert will be a dinner for members of both orchestras.

Dinner for Foreign Students

Any foreign student interested in a free Thanksgiving Day dinner and entertainment at Wellesley is asked to leave his name and address at the NSA office, Walker Memorial basement. There is to be room for 10 or 15.

Hillel

An exhibition of prints of seven New England printmakers will be at the Hillel House until November 28. All of these exhibits are for sale.

Professor Shlomo Marinoff, professor of archeology at Brandeis University, will speak on the sub-

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ROBBER ASKS RETRIAL

James Tilley, who is now serving a five-to-seven year term in the state prison as the man responsible for last March's \$25,000 holdup of the M.I.T. Coop, has petitioned for a new trial. His lawyer claimed that he had found a witness who saw Tilley somewhere else at the time of the robbery. There will be a hearing on the petition later.

Foilers

(Continued from Page 5)

meet against Harvard at home. To finish off the fencing for the year, the team will travel first to the Eastern Intercollegiates, and finally to the Nationals, in which it will face practically every team in the United States in a battle for personal and team honors.

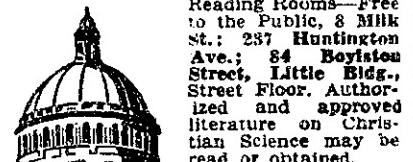
ject, "Jews, Past and Present," Sunday evening.

A game night at the Hillel House will be sponsored by the Lesley College Hillel Society on Monday, November 22, at 7:30 p.m.

The First Church of Christ, Scientist

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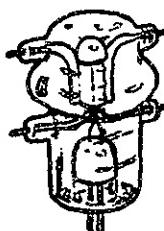
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Eastgate

(Continued from Page 1)

third floor On these floors, there are corridors with private stairways to each apartment on the floors immediately above and below. All apartments on the non-corridor floors are thus given maximum outside exposure, affording much more light, quietness and through ventilation. Corridor-floor apartments, generally of the one bedroom size, have all rooms overlooking the river.

Institute Architects

The architects, Wm. Hoskins Brown, Robert Woods Kennedy, and Carl Koch, with consultants Vernon DeMars and Ralph Rapson, are all on the staff of the Institute's School of Architecture and Planning. They are working with the firm of Thomas Worcester, Inc., the architects and engineers for the Mutual Insurance Company.

Among other interesting features of the building, every apartment, like those in the new Senior House, will front on the river basin, while corridors are placed on the Amherst Street side of the building.

Private Balconies

Every apartment has its own private balcony, separated from the

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Fraternity Findings

(Continued from Page 2)

use of all expected fraternity social events as well as dates of MIT activities and vacation dates of local girls' schools.

The second, the Information Committee, is gathering and cataloguing lowest prices and quality rating for liquor purchasing, hotel and other dance hall rentals, orchestras, and information concerning outing parties, hayrides, decorations, etc. This catalogue will be made available to all Social Chairmen by Len Smith, head of the committee.

living room by a glass wall.

There will be steam heat, and many electrical outlets, including provision for television and radio.

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